



# BSP™61 - Print and Apply System



# Complete labelling solution to obtain 100% traceability

The BSP™61 Print and Apply System offers a fully automatic labelling solution anywhere along the production line. It combines a thermal transfer label printer with an automatic applicator and is designed to consistently print and accurately position and apply labels in almost all manufacturing applications. The BSP61 combines precision, versatility and high print quality and offers best value for money.

### **Increase your productivity**

The use of high-performance equipment for labelling in a production environment maximises efficiency by enabling first-time clean, clear and accurate labelling, streamlined traceability, reducing material wastage, maintaining uptime and measuring WIP. The result? A reduction of each unit's total production cost. Tier 1 automotive suppliers have reported up to 70% labour cost savings and an increase in production efficiency and quality.



### Meets the demands of your environment

The BSP™61 Print and Apply System is developed for applications such as PCB marking, component and product marking in high quality demanding industries like automotive, electronics, manufacturing and laboratory. Designed for optimum, easy integration into existing production lines, the BSP61 has a compact footprint and offers a software that is compatible with your host system.

# **Your benefits**

Real time processing and track	ang	
Zero queue print and apply	Follows real time processing and tracking eliminating the potential for error	
Printing and labelling at the same time		
Multi-tasking capability	Allows printing and labelling at the same time to maximise efficiency in the produc- tion process, reducing production time and therefore total unit cost	
A specially developed Auto App	oly labelling material	
Brady tailored label materials for Auto Apply	Best print quality and dispensability.  Materials available for every harsh environment, such as, chemical washes, abrasion, temperature and weathering including UV. Specially developed ROHS PCB labelling material.	
Ensure correct traceability with	ı crisp printing	
300 and 600 dpi printing capability	Maximum flexibility for labelling. With the quality of 600 dpi, small, legible labels are guaranteed. Capable of printing 2D codes (DataMatrix, QR,) on the smallest of labels.	
Label sizes for every application		
Prints and applies a range of labels sized from 4 mm to 60 mm height, and 4 mm to 115 mm width	Label sizing to suit every application. Ideal for labelling small components or surfaces to ensure correct traceability.	

Maximum efficiency in production line integration		
Manual or automatic feeding by adding a foot switch or interfacing to a PLC	With a choice of how to control the print and apply cycle, it maximises efficiency in production line integration	
One system for many application	18	
3 standard applicators: 1 or 2 axis placement and rotation 90° or 180°	Brings both efficiency and flexibility. Use the same print & apply machine to label different components on same surface or product i.e. PCB even if components are positioned differently on surface	
Accurate label positioning		
Very high placement accuracy +/- 0.3 mm	Best quality labelling, to ensure content is in the right place on the label and also the label is correctly positioned in situ. Ensures 100% accurate traceability	
Easy integration into existing p	roduction lines	
Compact size	A small footprint and overall size allows fast, easy integration into existing production lines and work areas.	
Seamless software integration		
Direct programming with J-Script, printer language is easy to integrate into your host (manufacturing / ERP) system	No data duplication, error and risk reduction, ensure correct traceability	
ESD safe working		
Anti-static brush	Ensures optimal functionality in ESD production environments	

# Why Brady labelling solutions?

- Brady runs one of the world's largest R&D programmes on the design and production of industrial-grade labels. Our expertise in the application of specialist inks, adhesives, plastics and other materials used in labels is unrivalled.
- Brady products and services are focused on its industrial customer base. We have a team of qualified engineering consultants who know how to implement a lineside labelling system for maximum efficiency.
- Brady labels are manufactured in facilities with ISO/TS 16949 certification. You can rest assured that your production process will not be hindered by failures in our products.
- Brady supplies via specialised integrators a complete labelling system that includes the means to print and apply labels within your production process and link the printing software into your production software system, quickly and easily.



### **Problem free automatic labelling**

Brady have developed unique solutions that remove the problems of automating label application to ensure reliable tracking and tracing.

- No Cutting into the liner custom developed Clean Liner Technology (CLT) prevents over cutting into the liner and ensures a perfect result from the outset.
- Clean pick up our applicator head will pick up every label without exception
- No Adhesive bleeding CLT eradicates any problems with the adhesive
- No Label curling our labelling materials are developed specifically for automatic application with a no-curl guarantee
- Accuracy correct placement first time, every time

#### High performance identification materials for demanding applications require:

- A label material and material top coat that is carefully matched with an ink to create the most durable print for your application
- An adhesive selected to adhere to the application surface and stay applied for the product's lifetime
- Production expertise to ensure that however the product is applied, it can be dispensed and/or handled efficiently



Whatever your application, our carefully developed material combinations withstand nearly any chemical that is found in use in the industry, often without the need to laminate.

Our label materials are extensively tested in our world-class laboratories for resistance to chemicals, abrasion, temperature on one line and weathering, including UV. In many cases it is possible to test specific material combinations to specifications defined by you.

## **Technical details**



#### Large graphic display

White backlight guarantees clarity of display. Depending on the installation position the display can be rotated in 90° steps.

### Navigator pad

Simple, interactive menu control. Applicable functions are illuminated. Menu handling is easy to comprehend.

#### 3 Ribbon retainer

The three part tightening axles allow a fast and easy ribbon exchange.

#### Solid, buckling resistant metal chassis

Manufactured from die cast aluminium. All components are fixed to the body.

#### 5 Assembly applicator

The applicator is attached by hinges and can be changed easily.

#### 6 Printing offset

After changing the label roll the printing position is set up automatically after a few printed labels. This label position is then stored, even if the machine is turned off.

#### 7 Printhead

The printhead can be replaced easily.

Adjustments and set-ups are not necessary.

#### 8 Ribbon saver

It is used for labels which are to be only partially printed. The printhead is lifted off in the plain area and the ribbon is stopped during label feed.

#### 9 Transport system

The ball bearing transport rollers ensure a highly accurate printing and the precise feeding of labels.

#### 10 Label unwinder

The swing lever and the integrated brake make sure that the labels are unwound with constant tension.

#### 11 Rewinder

The liner of a label roll is rewound after the labels have been peeled off. The clamping shafts enable an easy exchange of the roll.

#### 12 Print direction

All BSP61 label printers with applicators are available in left and right orientation.

### **Interfaces**



- RS232C- Interface
- 2 USB 2.0 Slave interface
- 3 Ethernet 10/100 Base T-interface with TCP/IP
- Slot for Wireless LAN-card
- Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or service key
- 6 Slot for memory card CompactFlash Type I
- Connection for warning light

Indicates the display and the printer status

Green Ready for operation

Yellow Pre-warning: end of label, end of ribbon

Red Printing or applying error

- Connection main valve for air pressure:
  On / off signal for compressed air supply
- Connection external E-stop In connection with a main valve this interface allows to cut off the compressed air supply in case of an emergency
- Digital I/O interface 25-pin SUB-D socket.

All 24V in- and outputs are optically isolated

#### Inputs

Start printing and applying

Reprint
Label feed

Delete print job Pre-warning end of ribbon
Pause Pre-warning end of label
Label dispensed Error end of ribbon

Label dispensed Error end of ribbo Reset Error end of label

Stop printing and applying La Print first label Ba

Rotation 4200

Label in dispensing position

Basic position / upper end position Applying position / lower end position

Common alarm

Outputs

Ready to operate

Paper feed on

Print data available

#### **Options**



Interface Centronics bi-directional acc. IEEE 1284.
Interface RS422/RS485 1.200 up to 230.400 Baud/8 Bit.

The interfaces are connected to the PC.

Connection to the printer via mini USB-connection cable.



Label selection box-I/O-box. Via SPS up to 16 different labels can be loaded from a memory card.

Operation of four in-/outputs via Basic Interpreter.



WLAN card 802.11 b/g.

# **Technical data**

1. Printhead	BSP61-62	BSP61-34
Print method		r/Direct thermal
Print resolution dpi	600	300
Print speed up to mm/s	100	250
Print width up to mm	57	105.60
2. Material		
_abels on rolls		textiles, synthetics
Thickness mm / weight a/m²		5 / 60 - 160
Thickness mm / weight g/m²	4 - 58	
Width Labels¹) mm		10 - 114
Width of liner Spool / Roll	10 - 62 / 25 - 62	- / 25 - 118
Label height¹) when dispensing mm	4 - 200	8 - 250
Media roll: Total Ø up to mm		/ 305
Core Ø mm for BSP61	40	
Roll / Adapter	40 / 50	40 / 50
Roll	76	76
Winding direction	outside	or inside
3. Ribbon		
nk	outside	or inside
Roll diameter up to mm	80	80
Core diameter mm	25	25
Ribbon length variable up to m	500	500
Width <sup>2)</sup> mm	60	114
4. Internal rewinder	-5	
Total diameter up to mm	155	/ 210
Core diameter mm	76	76
	70	70
5. Dimensions of the printer		20
Height mm Label roll Ø 205 mm		00
Label roll Ø 305 mm		38
Depth mm Label roll Ø 205 mm		00
Label roll Ø 305 mm	5	18
Width mm	200	255
Weight kg	15	16
6. Label sensor		
See-through sensor	for leading edge of t marks and e	
Reflective sensor from the bottom /		ng marks
Reflective sensor from the bottom / from the top		
from the top Distance from center to shoulder middle wall	for printi	ng marks
from the top Distance from center to shoulder middle wall 7. Electronics	for printii 2 - 26	ng marks
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz	for printii 2 - 26	ng marks 2 - 47
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz	for printil 2 - 26	ng marks 2 - 47
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB	for printil 2 - 26   26	2 - 47
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash	2 - 26 20	2 - 47 66
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I	2 - 26 20	2 - 47 66 4
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card	for printil 2 - 26  2(	2 - 47 66 4 3
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card	for printil 2 - 26  26  66  Real-time clock, p	2 - 47  66  4  3  rintout of time and
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for	for printin 2 - 26  26  66  Real-time clock, p date storage of date	2 - 47  66  4  3  rintout of time and ta with shut-down
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHZ (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal	for printin 2 - 26  26  66  Real-time clock, p date storage of date	2 - 47  66  4  3  rintout of time and
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces	for printin  2 - 26  20  60  Real-time clock, p date storage of de	2 - 47  66  44  3  initial vinit of time and tat with shut-down all when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284	for printin  2 - 26  20  60  8  Real-time clock, p date storage of de Acoustic sigr	2 - 47  66  43  Initial and the state of time and the with shut-down all when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit	for printin  2 - 26  20  60  8  Real-time clock, p date storage of de Acoustic sigr	2 - 47  66  44  3  rintout of time and tat with shut-down all when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for	for printin  2 - 26  20  60  Real-time clock, p date storage of da  Acoustic sign	2 - 47  66  43  Initial and the state of the
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawlP-	for printin  2 - 26  20  60  Real-time clock, p date storage of da  Acoustic sign	2 - 47  266  44  3  rintout of time and ta with shut-down hal when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS,	for printin  2 - 26  20  60  Real-time clock, p date storage of da  Acoustic sign	2 - 47  266  44  3  rintout of time and ta with shut-down hal when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485	for printing 2 - 26  20  60  Real-time clock, p date storage of date Acoustic sign	2 - 47  266  44  3  rintout of time and ta with shut-down hal when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP)	for printin  2 - 26  20  60  Real-time clock, p date storage of da  Acoustic sign	2 - 47  2 - 47  36  4  3  rintout of time and ta with shut-down all when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection	for printin  2 - 26  20  60  Real-time clock, p date storage of da  Acoustic sign	2 - 47  66  44  3  rintout of time and that with shut-down hall when error
From the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light	for printin  2 - 26  24  66  8  Real-time clock, p date storage of date Acoustic sign  [	ng marks  2 - 47  66  44  8  Initial and the prior of time and the and the prior of time
From the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection PC-cronnection Distance Type-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit MLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light Digital I/O-Interface	for printin  2 - 26  20  60  8  Real-time clock, p date storage of de Acoustic sign  []  []  []  external operation scanner or	ng marks  2 - 47  66  44  3  initial with shut-down and when error  in panel, keyboard, service key
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) Ex USB Master for Connection warning light Digital I/O-interface cab applicator connection	for printin  2 - 26  20  60  8  Real-time clock, p date storage of da Acoustic sign  []  []  external operation scanner or	ng marks  2 - 47  66  44  3  rintout of time and ta with shut-down all when error
from the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) Ex USB Master for Connection warning light Digital I/O-Interface cab applicator connection Connection for external emergency stop	for printing for printing 2 - 26	ng marks  2 - 47  66  44  3  rintout of time and ta with shut-down all when error
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 R3232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawlP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP R32422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light Digital I/O-Interface cab applicator connection Connection for external emergency stop Connection compressed air	for printing for printing 2 - 26	ng marks  2 - 47  66  44  3  rintout of time and ta with shut-down all when error
rom the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Biot for memory CompactFlash-card Type I Biot for Wireless LAN-card Battery buffer for  Warning signal 3. Interfaces Centronics bi-directional acc. IEEE 1284 R3S232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawlP- Printing, ftp-Printing, DHCP, HTTP, FTP, BMTP, SNMP, TIME, Zeroconf, mDNS, SOAP R3S422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) EX USB Master for Connection warning light Digital I/O-Interface Dab applicator connection Connection for external emergency stop Connection compressed air	for printing for printing 2 - 26	ng marks  2 - 47  66  44  3  rintout of time and ta with shut-down all when error
from the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for  Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 R3232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawlP-printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP R32422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) Ex USB Master for Connection warning light Digital I/O-Interface cab applicator connection Connection for external emergency stop Connection compressed air 9. Operation data	for printin  2 - 26  26  66  Real-time clock, p date storage of da  Acoustic sign  [  external operation scanner or	ng marks  2 - 47  66  44  3  rintout of time and ta with shut-down all when error
irom the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JS32 C 1.200 up to 230.400 Baud/8 Bit JS3422, RS485 1.200 up to 230.400 Baud/8 Bit JS422, RS485 1.200 up to 230.400 Baud/8 Bit JS422 RS485 1.200 up to 230.400 Baud/8 Bit JS422 RS485 1.200 up to 230.400 Baud/8 Bit JS421 RS485 1.200 up to 230.400 Baud/8 Bit JS422 RS485 1.200 up to 230.400 Baud/8 Bit JS421 RS485 1.200 up to 230.400 Baud/8 Bit JS421 RS485 1.200 up to 230.400 Baud/8 Bit JS422 RS485 1.200	for printing for printing 2 - 26  21  66  88  Real-time clock, p date storage of date storage	ng marks  2 - 47  66  44  3  inintout of time and atta with shut-down all when error
rom the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for Por-connection Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) Ex USB Master for Connection warning light Digital I/O-Interface Dab applicator connection Connection for external emergency stop Connection compressed air  2. Operation data Power supply Power consumption	for printing for printing 2 - 26  21  66  88  Real-time clock, p date storage of date storage	ng marks  2 - 47  66  44  8  Initial and the state of the
From the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light Digital I/O-Interface Dab applicator connection Connection for external emergency stop Connection compressed air Doperation data Power supply Power consumption Temperature / Humidity: Operation	for printing for printing for printing 2 - 26  21  22 - 26  26  Real-time clock, p date storage of date storag	ng marks  2 - 47  66  44  8  Initial and the state of time and the
From the top Distance from center to shoulder middle wall  7. Electronics Processor high speed 32 Bit Clock rate MHz RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal B. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit JSB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light Digital I/O-Interface cab applicator connection Connection for external emergency stop Connection compressed air 9. Operation data Power supply Power consumption Temperature / Humidity: Operation Storage	for printing for p	ng marks  2 - 47  66  44  3  initial i
from the top Distance from center to shoulder middle wall 7. Electronics Processor high speed 32 Bit Clock rate MHz (RAM) MB Memory IFFS MB Flash Slot for memory CompactFlash-card Type I Slot for Wireless LAN-card Battery buffer for Warning signal 8. Interfaces Centronics bi-directional acc. IEEE 1284 RS232 C 1.200 up to 230.400 Baud/8 Bit USB 2.0 High Speed Slave for PC-connection Ethernet 10/100 Base T, LPD, RawIP- Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SMMP, TIME, Zeroconf, mDNS, SOAP RS422, RS485 1.200 up to 230.400 Baud/8 Bit WLAN card 802.11b/g WEP/WPA PSK (TKIP) 2x USB Master for Connection warning light Digital I/O-Interface cab applicator connection Connection compressed air 9. Operation data Power supply Power consumption Temperature / Humidity: Operation	for printing for p	ang marks  2 - 47  66  44  3  initial

*pending
----------

■ Standard □ Option

Buttons / LeD-display: 4 x Cursor   Victor Responsibility   LeD-display: 4 x Cursor   Victor Responsibility   Victor Responsib	10. Operation panel		
LED-display:	Buttons /	Pause, Feed. Cancel. Men	u, Enter,
Digital or analogue clock time System settings Print parameters   date Print parameters   Status print parameters   Statu	LED-display:		-,,
Digital or analogue clock System settings Print praematers 25 language settings Print praematers 25 language settings Stop printing if: End of ribbon End of labels End of ribbon Individual End of labels End of ribbon Individual End of labels End of label	LCD-graphic display:		por line
System settings interfaces 25 language settings security  12. Monitoring  Warning if: End of ribbon End of labels Stop printing if: End of ribbon End of labels Printhead open Data reception On the display Data reception WLAN field intensity Date sheet abc debug law of labels Printhead open Data reception WLAN field intensity Date sheet abc debug law of memory Card Prepareture printhead Access to memory card Prepareture printhead Access to memory card Prepareture printhead Access to memory card System diagnosis When switched on with testing of printhead Short Status, Stort Status, Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state Status reports Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g., network error-no link, barcode error etc.  14. Fonts  15. Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai and Chinese.  18. Bitmap fonts Size of width and height 1 - 3 mm Zoom 2-10  19. Orientation 0°, 90°, 180°, 270°  19. Size of width and height 1 - 3 mm Zoom 2-10  20. Orientation 0°, 90°, 180°, 270°  19. Size of width and height 1 - 3 mm Zoom 2-10  20. Orientation 0°, 90°, 180°, 270°  19. Size of width and height 1 - 3 mm Zoom 2-10  20. Orientation 0°, 90°, 180°, 270°  20. Size of width and height 1 - 3 mm Zoom 2-10  20. Size of width and height 1 - 3 mm Zoom 2-10  20. Size of	11. Settings	Text 4 lines, 20 characters	per line
Print parameters 25 language settings security  12. Monitoring  Warning if: End of ribbon End of labels End of labels Printhead open On the display  Data reception WLAN field intensity Ethernets state Used memory Temperature printhead Access to memory card Access to memory card  13. Test routines  System diagnosis When switched on with testing of printhead System diagnosis Short Status, Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state Extensive status print with information about setting, e.g. print length counter runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.  14. Fonts Font types  5 Sitmap fonts incl. CCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TruelType fonts. Optional Chinese (simplified Chinese), Optional Thai Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, BEC DIC 500, 150, 8659-1 up to 10 and -13 up to -16, WinDEM 720, UTF-8, Macintosh Roman, DEC MCS, KOIB-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese. Size of width and height 1 . 9 - 128 mm variable zoom, Orientation 360° in steps of 1° Font formats  Graphic formats  Font width  Variable  2D-Codes  Linear barcodes  Linear barcodes  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Fox, IMG, BMP, TIF, MAC, GIF, PNG  MSI  All Codes variable in height, module width and ratio. Orientation 0°, 9°, 180°, 270°. Optional print fall of the prost of the prost AG  Land Language and Start Vision code, depending on code type.  17. Software  Prost AG  All codes variable in height, module width and ratio. Orientation 0°, 9°, 9°, 180°, 270°. Optionally with check digit, printed characters and Start/Siop code, dep	<b>.</b>	Digital or analogue clock	time
25 language settings   security			
Warning if:  End of ribbon End of labels  End of ribbon End of labels  End of ribbon End of labels  Printhead open  On the display  Data reception WLAN field intensity Ethernet state Used memory Temperature printhead Access to memory card  13. Test routines  System diagnosis  When switched on with testing of printhead Access to memory card  Short Status, Status reports  Extensive status print with information about setting, e.g. print length counter, runtime counter etc.  Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  14. Fonts  15. Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (singhified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 487, 737, 778, 850, 853, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOBM 720, UTF-8, Macintosh Roman, DEC MCS, KOB-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese. Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, Italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  15. Graphics  16. Barcodes  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Cude 33  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Cude 33  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Font width  15. Graphics  16. Barcodes  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Cude 39, Cude 39  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Cude 39  Line, arrow, box, circle, ellipse, filled and filled with			
## End of ribbon   End of labels   End of lab	12. Monitoring	20 language settings	Scounty
Stop printing if:  End of ribbon End of labels Printhead open  Data reception WLAN field intensity Ethernet state Used memory Temperature printhead Access to memory card  Went and intensity System diagnosis Short Status, Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state Status reports  Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barrode error etc.  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai Undows 1250 up to 1267, DOS 437, 737, 758, 550, 582, 857, 682, 864, 666, 689, BCD DIC 500, ISO 8593-1 up to -10 and -13 up to -16, WinDEM 720, UTF-B, Macintosh Roman, DEC MCS, KOIB-R, All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese. Size of width and height 1 - 3 mm Zoom 2-10 Orientation 90°, 90°, 180°, 270°  Vector- / Size of width and height 10,9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, Italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width Variable  15. Graphice dements  Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII C	Warning if:	End of ribbon	
End of labels Printhead open Data reception WLAN field intensity Ethernet state Used memory Premperature printhead Access to memory card Premperature Premperat			
On the display  Drinthead open  On the display  Data reception WLAN field intensity Ethernet state Used memory Impurbuted and Access to memory card  When switched on with testing of printhead Access to memory card  When switched on with testing of printhead Access to memory card  When switched on with testing of printhead Short Status, Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai and Chinese (simplified Chinese), Optional Thai up to -10 and -13 up to -10, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, ROB-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0°, 270°  Vector- / Size of width and height 0°, 270°  Vector- / Size o	Stop printing if:		
WLAM field intensity Ethernet state a but debug Used memory Temperature printhead Access to memory card  13. Test routines  System diagnosis  When switched on with testing of printhead Short Status, Short Status, Font list, device list, WLAM state, profile of label, test grid, monitor mode, PPP state  Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.  14. Fonts  Setting fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K018-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / TrueType fonts  Font width  Variable  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Code 93 Code 39, Code 93 Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  All Code 39, Code 93 Code 39, Full ASCII Code 39 Full ASCII Code 39 Full ASCII Code 39 Full ASCII Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 20 Full ASCII Code 20 Full ASCII Code 30 Full ASCII Code 20 Full ASCII Code 20 Full ASCII Code 20 Full ASCII Code 30 Full ASCII Code 40 Full ASCII Code			<b>=</b>
Ethernet state   Used memory   Input buffer   Remaining quantity of ribbon	On the display		
Used memory Temperature printhead Access to memory card  13. Test routines  System diagnosis  When switched on with testing of printhead  Short Status,  Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state  Extensive status print with information about setting, e.g., print length counter, runtime counter etc.  Request of machine state via software command. Detailed status messages on the display, e.g., network error-no link, barcode error etc.  Request of machine state via software command. Detailed status messages on the display, e.g., network error-no link, barcode error etc.  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts.  Optional Chinese (simplified Chinese), Optional Thai via profile of the profile of this profile of the profile of this profile of the profile of this p			
Temperature printhead Access to memory card  13. Test routines  System diagnosis  When switched on with testing of printhead  Short Status, Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state  Extensive status print with information about setting, e.g. print length counter, runtime counter etc.  Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  14. Fonts  Font types  S Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable Trustipye fonts.  Optional Chinese (simplified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinoFM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm  Zoom 2-10  Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm  variable zoom, Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm  variable zoom, Orientation 0°, 90°, 180°, 270°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphice  Graphic elements  Graphic elements  Code 39, Code 93  Code 39, Full ASCII  Line, arrow, box, circle, ellipse, filled and filled with fading  PCX, IMG, BMP, TIF, MAC, GIF, PNG  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS  Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked ormidirectional, EAN-Datamatrix, 631 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming a			
System diagnosis  When switched on with testing of printhead  Font ilist, device list, WLAN state, profile of label, test grid, monitor mode, PPP state  Extensive status print with information about setting, e.g. print length counter, runtime counter etc.  Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts.  Optional Chinese (simplified Chinese), Optional Thai up to -16, WinGows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinGows 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm  Zom 2-10  Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, Italic, underlined, outline, negative, grey, vertical, depending on character fonts  Variable  15. Graphics  Graphic elements  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Line arbarcodes  Code 39, Code 93  Code 39, Code 93  Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code 39, Full ASCII Ident- and lead Code 128 A, B, C Code			
System diagnosis  When switched on with testing of printhead  Short Status,  Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state  Extensive status print with information about setting, e.g., print length counter, runtime counter etc.  Request of machine state via software command. Detailed status messages on the display, e.g., network error-no link, barcode error etc  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TruelType fonts.  Optional Chinese (simplified Chinese), Optional Thai  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 889-1 up to -10 and -13 up to -16, WinCeM 720, UTF-8, Macintosh Roman, DEC MCS, KDIS-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10  Orientation 0°, 90°, 180°, 270°  Vector- /  Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, Italic, underlined, outline, negative, grey, vertical, depending on character fonts  Variable  Tis. Graphic  Graphic elements  Graphic lements  Code 39, Code 93  Code 39 Full ASCII Ident- and lead Code 128 A, B, C Co	40 = 1	Access to memory card	
Short Status, Status print Status reports  Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinCoM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  15. Graphics  Graphic elements  Code 39, Code 93 Interleaved 2 / 5 (ada) (ada		Whon quitabad ==ith	ating of printhed
Status print  Status reports  Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable Truet/pye fonts. Optional Chinese (simplified Chinese), Optional Thai Windows 1280 up to 1287, DOS 437, 737, 775, 850, 882, 887, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, KOIB-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 1 - 3 mm Zoom 2-10 Orientation 360° in steps of 1° Font formats  Bold, flalic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width Variable  15. Graphics  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Line arrow, box, circle, ellipse, filled and filled with fading PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Line arrow, box circle, ellipse, filled and filled with fading PCX, IMG, BMP, TIF, MAC, GIF, PNG  17. Bots Ag, Code 39, Code 93 Code 39 Full ASCII Ident- and lead Code 128 A, B, C Code Of Peutsche Code 128 A,	, 0		
Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.  14. Fonts  Font types  5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, 150, 8859-1 up to 10 and -13 up to -16, WinoEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  TrueType fonts  Craphic Graphic Bermats  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  Code 39, Code 33 Interleaved 2 / 5 Code 39, Full ASCII Ident- and lead code of Deutsche Post AG EAN J. 13 JAN 8, 13 EAN J. UCC 128 MS EAN J. UCC	· ·		state, profile of label, test grid,
length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc  11. Fonts  Font types    S Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts.   Optional Chinese (simplified Chinese), Optional Thai Chinese), Optional Chinese (simplified Chinese), Optional Thai Chinese), Optional Thai Chinese, Optional Chinese	Status reports		information about setting, e.g. print
messages on the display, e.g. network error-no link, barcode error etc.  114. Fonts  Font types  S Eltmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (siemplified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, BEO DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width Variable  15. Graphics  Graphic elements  Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Line, arrow, box, circle, ellipse, filled and filled with fading PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Interleaved 2 / 5 Code 39 Full ASCII Ident- and lead Code 128 A, B, C code of Deutsche Codabar Post AG EAN 8, 13 EAN / UCC 128 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 EAN / UPC Appendix 5 EAN / UPC Appendix 5 Post tat FIM RSS 14 HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°, Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  Windows XP Server 2008 Windows YP Server 2008 Windows YR Server 2008 Windows YR Server 2008 Windows YR	,	length counter, runtime co	unter etc.
Darcode error etc   Seltmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts.   Optional Chinese (simplified Chinese), Optional Thai Optional Chinese (simplified Chinese), Optional Thai Vindows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 854, 868, 868, 98 ED OIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.   All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.   Bitmap fonts			
5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, BBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Variable  15. Graphics  Graphic elements  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  16. Barcodes  Linear barcodes  Linear barcodes  Code 39, Code 93 Interleaved 2 / 5 Ident- and lead Code 128 A, B, C code of Deutsche Codabar Post AG EAN 8, 13 JAN 8, 13 EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 3 Post AG Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector Database Connector System diagnosis / Printer monitoring Abcure 2008 Windows Yisa Server 2008 Windows Yisa Server 2008 Windows Server 2008 Windows Server 2008 Windows Server 2008 Windows Server 2008 R2			e.g. network error-no link,
721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai  Character sets  Windows 1250 up to 1257, DOS 437, 737, 756, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics Graphic elements  Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Code 39, Code 93 Code 39, Full ASCII Code 128 A, B, C Code 39, Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Cod	14. Fonts		
loadable TrueType fonts. Optional Chinese (simplified Chinese), Optional Thai   Character sets	Font types		
Optional Chinese (simplified Chinese). Optional Thai  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector-/ Size of width and height 0.9 - 128 mm variable zoom, Orientation 380° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Code 39, Code 93  Code 39, Full ASCII Code 39, Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Codabar Post AG EAN 8, 13 EAN / UCC 128 EAN 8, 13 EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, OR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  Windows YP Windows YP Server 2008 Windows VISS Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 R2			Monospace 821 available internally,
Character sets  Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinDEM 720, UTF-8, Macintosh Roman, DEC MCS, KOI8-R.  All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Craphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Codabar Post AG EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, OR-Code, RSS 14 truncated, limited, stacked and stacked omnicilrectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration  Network Manager  Accredited for Windows Vista Windows 7 Server 2008			d Chinese), Ontional Thai
B82, 864, 866, 869, EBC DIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R.   All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.   Bitmap fonts	Character sets		
KÖI8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector-/ Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, Italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  15. Graphics  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93, Code 93, Interleaved 2 / 5 Code 39 Full ASCII Ident- and lead Code 128 A, B, C code of Deutsche Codabar Post AG EAN A, 13 JAN 8, 13 EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 5 Postnet FIM RSS 14 HIBC UPC A, E, E0  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring administration Network Manager  Accredited for Windows VF Server 2008 Windows 7 Server 2008		862, 864, 866, 869, EBC D	OIC 500, ISO 8859-1 up to -10 and -13
All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese.  Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Linear barcodes  Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code of Deutsche Codabar Post AG EAN 8, 13 JAN 8, 13 EAN / UCC 128 MSI EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FOstnet FIM RSS 14 HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnicilirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring Network Manager  Accredited for Windows VF Server 2008 Windows Vista Server 2008 Windows V Server 2008 R2			TF-8, Macintosh Roman, DEC MCS,
Bitmap fonts  Size of width and height 1 - 3 mm Zoom 2-10 Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Linterleaved 2 / 5 Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code of Deutsche Codabar EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 Postnet FIIM RSS 14 HIBG  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring Network Manager  Accredited for Windows 47 Windows 7 Server 2008			n latin cyrillic greek hebrewand
Zoom 2-10 Orientation 0°, 90°, 180°, 270° Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1° Font formats Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts Font width Variable  15. Graphics Graphic elements Line, arrow, box, circle, ellipse, filled and filled with fading Graphic formats PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes Linear barcodes Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Code 39 Full ASCII Code 128 A, B, C Code of Deutsche Codabar Post AG EAN VIPC Appendix 2 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC  2D-Codes Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring Network Manager  Accredited for Windows Vista Server 2008 Windows 7 Server 2008			
Orientation 0°, 90°, 180°, 270°  Vector- / Size of width and height 0.9 - 128 mm variable zoom, Orientation 360° in steps of 1°  Font formats	Bitmap fonts		- 3 mm
Vector- / TrueType fonts			70°
TrueType fonts	Vector- /		
Font formats  Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93  Linear barcodes  Code 39 Full ASCII  Code 128 A, B, C  Code 39 Full ASCII  Code 128 A, B, C  Code 39 Full ASCII  Code 128 A, B, I3  EAN / UPC Appendix 2  EAN 8, 13  EAN / UPC Appendix 2  EAN / UPC Appendix 5  FIM  RSS 14  HIBC  UPC A, E, E0  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler  Database Connector  Database Connector  System diagnosis / administration  Network Manager  Accredited for  Windows VSP  Windows XP  Server 2008  Windows Vista  Server 2008  Windows Vista  Server 2008  Windows 7 Server 2008  Windows 7 Server 2008  Windows 7 Server 2008	TrueType fonts		
depending on character fonts  Font width  Variable  15. Graphics  Graphic elements  Line, arrow, box, circle, ellipse, filled and filled with fading  Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93  Linear barcodes  Code 39 Full ASCII  Code 128 A, B, C  Code 39 Full ASCII  Code 128 A, B, C  Code of Deutsche  Code of Deutsche  Code 128 A, B, S  EAN / UPC 128  EAN / UPC Appendix 2  EAN / UPC Appendix 2  EAN / UPC Appendix 5  FIM  RSS 14  HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS  Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler  Database Connector  System diagnosis / Printer monitoring administration  Network Manager  Accredited for  Windows VP  Windows XP  Server 2008  Windows Vista  Server 2008  Windows Vista  Server 2008  Windows 7  Server 2008  Windows 7  Server 2008			
Font width  15. Graphics  Graphic elements  Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN / UPC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Network Manager  Accredited for Windows VP Windows XP Server 2008 Windows 7 Server 2008	Font formats		
### Time Programming    15. Graphics   Code 39, Code 93	Font width		TIG .
Graphic formats  PCX, IMG, BMP, TIF, MAC, GIF, PNG  16. Barcodes  Linear barcodes  Code 39, Code 93 Code 39 Full ASCII Ident- and lead Code 128 A, B, C Code of Deutsche Codabar Post AG EAN 8, 13 JAN 8, 13 EAN / UPC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM RSS 14 HIBC  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 9°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Accredited for Windows VP Windows XP Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008  Interleaved 2 / 5 Ident- and lead Code 3 / Code 98 Interleaved 2 / 5 Ident- and lead Code 3 / Code 98 Interleaved 2 / 5 Ident- and lead Code 3 / Code 98 Ident- and lead Code 3 / Code 98 Ident- and lead Code 3 / Code 98 Ident- and lead Code 3 / Follows Code 12 / Code of Deutsche Code 12 / Code 12 / Code 12 / Code 14 / C	15. Graphics		
Linear barcodes  Code 39, Code 93 Code 39 Full ASCII Ident- and lead Code 128 A, B, C Code 39 Full ASCII Ident- and lead Code of Deutsche Codabar Post AG EAN 8, 13 JAN 8, 13 EAN / UPC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 Fostnet FIM RSS 14 HIBC UPC A, E, E0  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation O°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  Database Connector  System diagnosis / administration Network Manager  Accredited for Windows VP Windows XP Windows VStata Windows Vista Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008	Graphic elements	Line, arrow, box, circle, elli	pse, filled and filled with fading
Linear barcodes  Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Code of Deutsche Code of Deutsche Code 128 A, B, C Code of Deutsche Post AG EAN 8, 13 EAN / UCC 128 EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM RSS 14 HIBC  UPC A, E, E0  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Network Manager  Accredited for Windows Vr Windows XP Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008	Graphic formats	PCX, IMG, BMP, TIF, MAC,	GIF, PNG
Code 39 Full ASCII Ident- and lead code of Deutsche Code 128 A, B, C code of Deutsche Post AG EAN 8, 13 JAN 8, 13  EAN / UCC 128 MSI Plessey EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 5 Postnet FIM RSS 14 HIBC UPC A, E, EO  2D-Codes Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector System diagnosis / Printer monitoring administration Network Manager  Accredited for Windows XP Server 2008 Windows Vista Server 2008 Windows 7 Server 2008 R2	16. Barcodes		
Code 128 A, B, C Code of Deutsche Codabar Post AG EAN 8, 13 JAN 8, 13 EAN / UCC 128 MSI EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 5 Postnet FIM RSS 14 HIBC UPC A, E, E0  2D-Codes Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Network Manager  Accredited for Windows Vista Windows VP Server 2008 Windows 7 Server 2008 Windows 7 Server 2008 Windows 7 Server 2008  Windows 7 Server 2008  Windows 7 Server 2008	Linear barcodes		
Codabar Post AG EAN 8, 13 JAN 8, 13  EAN / UCC 128 MSI  EAN / UPC Appendix 2 Plessey  EAN / UPC Appendix 5 Postnet  FIM RSS 14  HIBC UPC A, E, EO  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring administration Network Manager  Accredited for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
EAN / UCC 128 MSI EAN / UPC Appendix 2 Plessey EAN / UPC Appendix 5 Postnet FIM RSS 14 HIBC UPC A, E, EO  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Network Manager  Accredited for Windows Vr Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2		Codabar	Post AG
EAN / UPC Appendix 2 EAN / UPC Appendix 5 FIM RS 14 HIBC UPC A, E, E0  2D-Codes  Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration  Network Manager  Accredited for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
EAN / UPC Appendix 5 FIM RSS 14 HIBC UPC A, E, EO  2D-Codes Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Accredited for Windows VP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
HIBC UPC A, E, E0  2D-Codes Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector Database Connector Printer monitoring Administration Network Manager Accredited for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2		EAN / UPC Appendix 5	Postnet
Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration  Accredited for Windows VP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / administration Network Manager  Accredited for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2	2D Codos		
stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar  All codes variable in height, module width and ratio. Orientation 0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring administration Network Manager  Accredited for Windows Vista Windows Vista Server 2008 Windows 7 Server 2008 Windows 7 Server 2008  Windows Vstar Server 2008 Windows 7 Server 2008 R2	2D-00068		
0°, 90°, 180°, 270°. Optionally with check digit, printed characters and Start/Stop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring administration Network Manager  Accredited for Windows Vary Windows XP Windows Vista Windows Vista Server 2008 Windows 7 Server 2008 R2			
characters and Start/Štop code, depending on code type.  17. Software  Programming  J-Script direct programming abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring Network Manager  Accredited for Windows VP Windows VP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
17. Software  Programming J-Script direct programming abc-Basic Compiler □ Database Connector □ System diagnosis / Printer monitoring administration Network Manager □ Accredited for Windows Vista Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2			
abc-Basic Compiler Database Connector  System diagnosis / Printer monitoring administration  Accredited for Windows VP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2	17. Software		, 5
Database Connector □  System diagnosis / Printer monitoring □ administration Network Manager □  Accredited for Windows VP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2	Programming	J-Script direct programmir	ng 🔳
System diagnosis / administration		abc-Basic Compiler	■
administration Network Manager   Accredited for Windows driver  Windows Vista Server 2008 Windows 7 Server 2008 R2			
Accredited for 32 / 64 bit for Windows XP Server 2003 Windows Vista Server 2008 Windows 7 Server 2008 R2	System diagnosis /		_
Windows driver Windows XP Windows Vista Windows 7 Server 2008 R2		-	
Windows Vista Server 2008 Windows 7 Server 2008 R2			003
Windows 7 Server 2008 R2	vviiluowa ulivei		
Stand-alone operation ■			
	Stand-alone operation		

The label size is additionally defined through the type of the applicator. Depending on label size, material and adhesive limitations are possible. Critical material or applications have to be tested and cleared.

<sup>&</sup>lt;sup>2)</sup> For best print performance the width of the ribbon should be approximately the same width as the labels.

# **Ordering Options**

Order Reference	Description
BSP61-62L	BSP61 for up to 50 mm wide consumables - 600 dpi - to be combined with left applicator
BSP61-34L	BSP61 for up to 101 mm wide consumables - 300 dpi - to be combined with left applicator
BSP61-62R	BSP61 for up to 50 mm wide consumables - 600 dpi - to be combined with right applicator
BSP61-34R	BSP61 for up to 101 mm wide consumables - 300 dpi - to be combined with right applicator

#### **Product Supplied**

Label printer, Power cable Type E+F, length 1.8 m, Connecting cables USB, length 1.8 m, Operation manual in English and German

	Order Reference	Description
	Applic. 4114L-200	Left applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction
	Applic. 4114L-300	Left applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction
	Applic. 4214L-200	Left applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4214L-300	Left applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4414L-200	Left applicator - cylinder stroke 200 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4414L-300	Left applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4114R-200	Right applicator - cylinder stroke 200 mm - horizontal precision guide in feed direction
in	Applic. 4114R-300	Right applicator - cylinder stroke 300 mm - horizontal precision guide in feed direction
	Applic. 4214R-200	Right applicator - cylinder stroke 200 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
H	Applic. 4214R-300	Right applicator - cylinder stroke 300 mm - horizontal rotary cylinder (angle of rotation 90 other 180°)
	Applic. 4414R-200	Right applicator - cylinder stroke 200 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)
	Applic. 4414R-300	Right applicator - cylinder stroke 300 mm - adjustable horizontal precision guides in X and Y direction (up to Y = 13 mm, X = 5 mm)



#### Cover

Protection against dirt and accidental contact.



#### External operation panel

If the operation panel is not accessible after installation of the printer into a production plant it is possible to attach an external operation panel.



#### Compact keyboard

Connection: USB, number of keys: 86. L x W: 282 x 132 mm, Cherry G84-4100.



#### Product sensor

For automatic printing and applying after detection of a product, e.g. on a conveyor belt.



#### Sub-D plug

Connection of the control signals to the IO-interface with screw clamps.



#### Warning light

Indicates the display and the printer status.

Red: Printing or applying failure

Yellow: Pre-warning: end of label, end of ribbon

Green: Ready for operation



#### Air pressure regulation unit

The unit can be assembled to the BSP61 or its brackets. Pre-adjustment to 4.5 bar by using a mounting angle.



# Air pressure regulation unit with additional cut-in valve

In case of integration of the print & apply system into a production line the air-pressure can be turned on or off externally. Pre-adjustment to 4.5 bar.

### **BRADY EMEA**

#### **BRADY Africa**

PO BOX 18015 Jebel Ali, Dubai, UAE Phone +971 4 881 2524 Fax +971 4 881 3183

#### **BRADY Benelux**

Industriepark C/3 Lindestraat 20 9240 Zele, Belgium Phone +32 (0) 52 45 78 11 Fax +32 (0) 52 45 78 12

#### **Brady Central & Eastern Europe**

Na Pántoch 18 831 06 Bratislava, Slovakia Phone +421 2 3300 4800 Fax +421 2 3300 4801

#### **BRADY Denmark**

Svendborgvej 39D 5260 Odense S Phone +45 66 14 44 00 Fax +45 66 14 44 50

#### **BRADY France**

Parc EUROCIT
45, avenue de l'Europe
59436 Roncq Cedex
Phone +33 (0) 3 20 76 94 48
Fax +33 (0) 3 20 76 76 06

#### **BRADY Germany**

Büchenhöfe 2 63329 Egelsbach Phone +49 (0) 6103 7598 660 Fax +49 (0) 6103 7598 670

#### **BRADY Hungary**

Puskás Tivadar u. 4. 2040 Budaörs Phone +36 23 500 275 Fax +36 23 500 276

#### **BRADY Italy**

Via Pitagora 18 20128 Milano

Phone +39 02 26 00 00 22 Fax +39 02 25 75 351

#### **BRADY Middle East FZE**

PO BOX 18015 Jebel Ali, Dubai, UAE Phone +971 4881 2524 Fax +971 4881 3183

#### **BRADY Norway**

Lerstadveien 506 6018 Ålesund Phone +47 70 13 40 00 Fax +47 70 13 40 01

#### **BRADY Spain & Portugal**

Calle Aragón 271 08007 Barcelona, Spain Phone +34 900 902 993 Fax +34 900 902 994

### **BRADY Sweden**

Vallgatan 5 170 67 Solna Phone +46 (0) 8 590 057 30

Phone +46 (0) 8 590 057 30 Fax +46 (0) 8 590 818 68

#### **BRADY Turkey**

Selvili Sok. No: 3/4 4.Levent Istanbul 34330

Phone +90 212 264 02 20 / 264 02 21

Fax +90 212 270 83 19

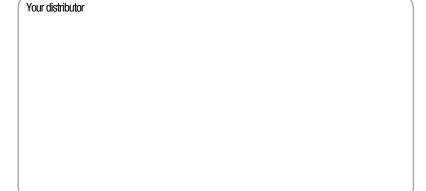
#### **BRADY UK & Ireland**

Wildmere Industrial Estate Banbury, 0xon – 0X16 3JU, UK Phone +44 (0) 1295 228 288 Fax +44 (0) 1295 228 100

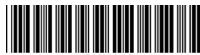


### **BRADY WORLDWIDE**

Australia	612 0717 6200
Australia	
Brazil	55-11-3686-4720
Canada	1-800-263-6179
China (Beijing)	86-10-6788-7799
China (Shanghai)	86-21-6886-3666
China (Wuxi)	
Hong Kong	
Japan	
Korea	82-31-451-6600
Latin America	1-414-540-5560
Malaysia	60-4-646-2700
Mexico	
New Zealand	61-2-8717-2200
Philippines	
Singapore	65-6477-7261
Taiwan	886-3-327-7788
Thailand	
USA	1-800-537-8791







Y2270313

